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☐	L126	L125 and reporduc$3	0
☐	L125	L124 and (file near5 identifier$1)	2
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☐	L123	L122 and (data near5 file$1)	1
☐	L122	5781683 .uref.	2
☐	L121	L120 and (sequence near5 reproduc$3)	3
☐	L120	L119 and sequence	166
☐	L119	(data) same (predetermined near5 categor$3) and @py<=2001	378
☐	L118	L104 and search$3 and filter$3 and (content or data or file$1) and locat$3 and (program near5 guide) and (select$3 near5 site$1)	7
☐	L117	6188650.uref.	9
☐	L116	L115 and (file near5 extension$1)	1
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☐	L113	L112 and network	10
☐	L112	L109 and (identif$3 near5 data)	12
☐	L111	L109 and (search$3 near5 location)	0
☐	L110	L109 and (search$3 near5 storage)	0
☐	L109	L104 and user$1 and search$3 and filter$3 and (locat$3 and data or information or file$1) and stor$3 and destination and (identif$3 near5 location)	12
☐	L108	L107 and (source and destination)	2
☐	L107	L105 and (locat$3 near5 information)	12
☐	L106	L105 and (locat$3 near5 file$1)	0
☐	L105	L104 and (search$3 near5 engine$1)	23
☐	L104	L98 and @py<=2001	1145
☐	L103	L98 and @py<=2000	679
☐	L102	L101 and @py<=2000	0
☐	L101	L100 and (file near5 name) and (file near5 extension$1)	38
☐	L100	L99 and ((filter$3 or search$3 or query$3) near5 (file$1 or data or content))	769
☐	L99	L98 and (data or content) near5 (file$1 or record$1)	1844
☐	L98	electronic program guide	5884

☐	L97	(data or content) near5 (file$1 or record$1) and (electronic program gruide) and (search$3 or filter$3) and (search$3 near5 engine$1) and @py<=2000	0
☐	L96	L95 and (file near5 extension$1)	3
☐	L95	L94 and (search$ same stor$)	27
☐	L94	((data near5 categor$) same (data near5 file$1)).clm.	160
☐	L93	L92 and (text near5 file$1)	11
☐	L92	L91 and ((search$ or query$) same (data near5 categor$1))	20
☐	L91	(search$ or query$) same (file near5 extension$1)	856
☐	L90	L89 and (data near5 categor$)	13
☐	L89	(file$1 and extension$1).ti,ab.	1893
☐	L88	L87 and ((search$ or query$) near5 (url$1))	10
☐	L87	L86 and ((html or xml) near5 (file$1))	195
☐	L86	L85 and (mpeg near5 file$1)	1351
☐	L85	L84 and ((sound or audio) near5 (data or categor$))	15001
☐	L84	(sound or audio) near5 (file$1)	33010
☐	L83	'.jpg'	0
☐	L82	L81 and 'data categories'	1
☐	L81	L80 and 'file categories'	26
☐	L80	'file extensions'	3629
☐	L79	'plurality of file extensions'	0
☐	L78	((data near5 format$1) same (file near5 extension$1)).clm.	21
☐	L77	(data near5 format$1) same (file near5 extension$1)	535
☐	L76	L75 and ((search$ or query$) near5 (url$1))	20
☐	L75	L74 and (data near5 categor$)	161
☐	L74	L73 and (file near5 format$1)	2096
☐	L73	L72 and (image near5 file$1)	4144
☐	L72	(audio near5 file$1) and (video near5 file$1)	11153
☐	L71	(audio near5 file$1) and (video near5 file$1) and (file neear5 extension$1)	0
☐	L70	L69 and (stor$ same search$)	2
☐	L69	L68 and (categor$ near5 file$1)	11
☐	L68	L67 and (data near5 location$1)	13
☐	L67	((file$1 near5 id$) same (data near5 categor$)).clm.	30
☐	L66	((file$1 near5 extension$1) same (data near5 categor$)).clm.	3
☐	L65	(file$1 near5 extension$1) same (data near5 categor$)	28
☐	L64	(file$1 near5 extension$1)	10718
☐	L63	(file near5 identifiers) and (data near5 catagor$)	1
☐	L62	(file near5 identifiers) same (data near5 catagor$)	0
☐	L61	(file identifiers) same (data near5 catagor$)	0

☐	L60	(www and search$ and engine$1).ti.	7
☐	L59	L58 and (predetermin$3 near5 categor$)	0
☐	L58	L57 and (stor$ near5 file$1)	28
☐	L57	L56 and (search near5 engine$1)	108
☐	L56	(search$ and file$1).ti.	1796
☐	L55	L54 and stor$	18
☐	L54	L53 and (categor$ near5 file$1)	20
☐	L53	L52 and (text near5 file$1)	94
☐	L52	(search$ near5 engine$1) same (audio near5 file$1)	169
☐	L51	L50 and (stor$ near5 data)	12
☐	L50	(file near5 extensions) same (search near5 engines)	36
☐	L49	L47 and (file near5 id$)	0
☐	L48	L47 and (file near5 extension$1)	0
☐	L47	L46 and (search$ near5 engine$1)	13
☐	L46	'search unit'.ti.	1270
☐	L45	6519564.pn.	2
☐	L44	(file extensions) same (search engines)	17
☐	L43	L42 and (data near5 categor$4)	13
☐	L42	L10 and (file$1 near5 format$1)	59
☐	L41	L40 and categor$5	1
☐	L40	L38 and (stor$4 unit$1)	7
☐	L39	L38 and (control unit$1)	2
☐	L38	L10 and (search unit)	40
	DB=EPAB; PLUR=YES; OP=ADJ		
☐	L37	WO-200077680-A2.did.	0
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L36	L35 and (search$ neear5 file$1)	0
☐	L35	L10 and (locat$ near5 file$1)	39
☐	L34	L33 and (data near5 destinat$4)	31
☐	L33	L32 and (data near5 stor$)	78
☐	L32	L31 and (data near5 categor$)	94
☐	L31	L30 and (data near5 locat$4)	1120
☐	L30	L29 and (data near5 file$1)	2147
☐	L29	file identifier	2671
☐	L28	L27 and L10	7
☐	L27	(file near5 extension$1) same (data near5 file$1)	2531
☐	L26	L25 and network$	21
☐	L25	L24 and (image near5 file$1)	21

☐	L24	L20 and (new$1 same url$1)	38
☐	L23	L20 and ((locat$) same (file near5 id$))	4
☐	L22	L20 and ((locat$) and (file neear5 id$))	0
☐	L21	L20 and ((locat$) same (file neear5 id$))	0
☐	L20	L19 and (data file$1)	110
☐	L19	(search$ near5 engine$1) and (predetermin$ near5 categor$)	391
☐	L18	L17 and (text near5 file$1)	15
☐	L17	L10 and (image near5 file$1)	41
☐	L16	L10 and (image$1 near5 extension$1)	2
	DB=EPAB; PLUR=YES; OP=ADJ		
☐	L15	WO-2003005235-A1.did.	0
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L14	L13 and (file$1 same extension$1)	0
☐	L13	(categor$ and search$ and engine$1).ti.	28
☐	L12	L11 and (file$1 near5 extension$1)	3
☐	L11	L10 and (url$1 same data$)	189
☐	L10	(search$ and engine$1).ti.	1627
☐	L9	L8 and ((extract) same (file near5 id$))	19
☐	L8	(search near5 engine$1) and (file near5 extension$1)	736
☐	L7	L6 and (file near5 extension$1)	1
☐	L6	(search$ and database$ and url$1).ti.	30
	DB=USPT; PLUR=YES; OP=ADJ		
☐	L5	US-6625606-B1.did.	1
☐	L4	US-6625606-B1.did.	1
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L3	(search$ and extract$ and file$1 and data$ and unit$1).ti.	13
☐	L2	(search$ and extract$ and file$1 and data$).ti.	77
☐	L1	(file$1 near5 id$) same (categor$3 near5 extension$1)	2

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Greco, J.;
Broadcasting Convention, International (Conf. Publ. No. 428)
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4. **Product material declaration program at Intel**
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Dobbie, W.;
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Jasinschi, R.S.; Louie, J.;
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8. **An Electromagnetic Environmental Effects (E3) Program Manager's Guid**
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9. **On controlling digital TV set-top-box by mobile devices via IP network**
Chi-Chia Lin; Ming-Syan Chen;
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11. **Development and tests of a TV navigation system personalized with view**
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Barton, J.M.;
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Kovacevic, B.;
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Colby, L.;
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☐ **20. IEE Data Systems for Digital Broadcasting Seminar (Ref. No.1998/467)**
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☐ **21. IEE Half-Day Colloquium on Navigation in Entertainment Services (Ref. N**
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☐ **24. A Situation-Based Dialogue Management using Dialogue Examples**
Cheongjae Lee; Sangkeun Jung; Jihyun Eun; Minwoo Jeong; Lee, G.G.;
Acoustics, Speech and Signal Processing, 2006. ICASSP 2006 Proceedings. 2
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☐ **25. A SVM-based Personal Recommendation System for TV Programs**
Jin An Xu; Araki, K.;
Multi-Media Modelling Conference Proceedings, 2006 12th International
04-06 Jan. 2006 Page(s):401 - 404
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1 Searching the Web

Arvind Arasu, Junghoo Cho, Hector Garcia-Molina, Andreas Paepcke, Sriram Raghavan
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Publisher: ACM Press

Full text available: pdf(319.98 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

2 m-links: An infrastructure for very small internet devices

Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: pdf(680.78 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

3 A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis
December 2004

ACM Computing Surveys (CSUR), Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(517.77 KB) Additional Information: full citation, abstract, references, index terms

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance.Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

4 JUSTICE: a judicial search tool using intelligent concept extraction
James Osborn, Leon Sterling
June 1999 **Proceedings of the 7th international conference on Artificial intelligence and law**
Publisher: ACM Press
Full text available: pdf(893.11 KB) Additional Information: full citation, abstract, references, citings, index terms

A legal knowledge based system called JUSTICE is presented which provides conceptual information retrieval for legal cases. JUSTICE can identify heterogeneous representations of concepts across all major Australian jurisdictions. The knowledge representation scheme used for legal and common sense concepts is inspired by human processes for the identification of concepts and the expected order and location of concepts. These are supported by flexible search functions and various string utili ...

Keywords: conceptual information retrieval, intelligent law information systems, intelligent research aid, legal WWW agent, legal knowledge representation, legal ontology

5 XML schemas: integration and translation: Intelligent knowledge discovery in peer-to-peer file sharing
Yugyung Lee, Changgyu Oh, Eun Kyo Park
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(381.17 KB) Additional Information: full citation, abstract, references, index terms

Emerging peer-to-peer computing provides new possibilities but also challenges for distributed applications. Despite their significant potential, current peer-to-peer networks lack efficient knowledge discovery and management. This paper addresses this deficiency and proposes the Intelligent File Sharing framework, which provides an effective and flexible query for P2P file sharing. The IFS is based on powerful schema and flexible inference, as well as efficiently integrated and extensible retri ...

Keywords: association rules, encoding, hierarchy, peer-to-peer file sharing, reasoning, retrieval, search

6 PageCluster: Mining conceptual link hierarchies from Web log files for adaptive Web site navigation
Jianhan Zhu, Jun Hong, John G. Hughes
May 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 2
Publisher: ACM Press

Full text available: pdf(280.84 KB) Additional Information: full citation, abstract, references, citings, index terms

User traversals on hyperlinks between Web pages can reveal semantic relationships between these pages. We use user traversals on hyperlinks as weights to measure semantic relationships between Web pages. On the basis of these weights, we propose a novel method to put Web pages on a Web site onto different conceptual levels in a link hierarchy. We develop a clustering algorithm called PageCluster, which clusters conceptually-related pages on each conceptual level of the link hierarchy based on th ...

Keywords: Link hierarchies, Web site navigation, bibliographic analysis, clustering, conceptual link hierarchies, link similarity

7 Architecture of a networked image search and retrieval system

R. Weber, J. Bollinger, T. Gross, H.-J. Schek

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, index terms

Large scale networked image retrieval systems face a number of problems that are not fully satisfied by current systems. On one hand, integrated solutions that store all image data centrally are often limited in terms of scalability and autonomy of data providers. On the other hand, WWW-based search engines proved to be fairly scalable, and data providers retain their autonomy. However, such engines often confront users with links to servers that are not available or to images that no longe ...

8 Audio: Peer-to-peer internet telephony using SIP

Kundan Singh, Henning Schulzrinne

June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**

Publisher: ACM Press

Full text available: pdf(93.89 KB) Additional Information: full citation, abstract, references, index terms

P2P systems inherently have high scalability, robustness and fault tolerance because there is no centralized server and the network self-organizes itself. This is achieved at the cost of higher latency for locating the resources of interest in the P2P overlay network. Internet telephony can be viewed as an application of P2P architecture where the participants form a self-organizing P2P overlay network to locate and communicate with other participants. We propose a pure P2P architecture for the ...

Keywords: SIP, internet telephony, peer-to-peer

9 Virtual reality, digital media, and computer games: The structuring of a wireless internet application for a music-on-demand service on UMST devices

Marco Roccetti, Vittorio Ghini, Paola Salomoni, Alessandro Gambetti, Davide Melandri, Mirko Piaggesi, Daniela Salsi

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(858.84 KB) Additional Information: full citation, abstract, references, citings, index terms

Developing enhanced wireless Internet applications is becoming one of the upcoming challenges for mobile radio networks operators. In this paper we introduce and discuss the general software architecture of a wireless Internet-based application we have designed and implemented to support the distribution of Mp3-based musical songs to

UMTS devices. We have examined the effects that Internet traffic has on the performance of wireless UMTS networks, due to the distribution of Mp3 files by means of ...

Keywords: UMTS, digital media on UMTS devices, music on demand, performance evaluation, wireless multimedia applications

10 Measurement: A high-level programming environment for packet trace anonymization and transformation

Ruoming Pang, Vern Paxson

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available: pdf(251.27 KB) Additional Information: full citation, abstract, references, citings, index terms

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet headers intact, completely stripping the contents; to our knowledge, there are no publicly available traces of any significant size that contain packet payloads. We describe a new approach to transform and anonymize packet traces. Our tool provide ...

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

11 XML parsing and stylesheets: Incremental maintenance for materialized XPath/XSLT views

Makoto Onizuka, Fong Yee Chan, Ryusuke Michigami, Takashi Honishi

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(371.45 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes an incremental maintenance algorithm that efficiently updates the materialized XPath/XSLT views defined using XPath expressions in $XP^{([],*,//,vars)}$. The algorithm consists of two processes. 1) The dynamic execution flow of an XSLT program is stored as an XT (XML Transformation) tree during the full transformation. 2) In response to a source XML data update, the impacted portions of the XT-tree are identified and maintained by partially re-evaluating the XSLT progra ...

Keywords: XML, XPath, XSLT, materialized view, view maintenance

12 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(293.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

13 OAI application: Extending SDARTS: extracting metadata from web databases and interfacing with the open archives initiative

Panagiotis G. Ipeirotis, Tom Barry, Luis Gravano

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(303.33 KB) Additional Information: full citation, abstract, references, index terms

SDARTS is a protocol and toolkit designed to facilitate metasearching. SDARTS combines two complementary existing protocols, SDLIP and STARTS, to define a uniform interface that collections should support for searching and exporting metasearch-related metadata. SDARTS also includes a toolkit with wrappers that are easily customized to make both local and remote document collections SDARTS-compliant. This paper describes two significant ways in which we have extended the SDARTS toolkit. First, we ...

Keywords: SDLIP, distributed searching, metadata, metasearching, web databases, wrapper construction

14 Peer-to-peer computing: Foreseer: a novel, locality-aware peer-to-peer system architecture for keyword searches

Hailong Cai, Jun Wang

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(315.85 KB) Additional Information: full citation, abstract, references

Peer-to-peer (P2P) systems are becoming increasingly popular and complex, serving millions of users today. However, the design of current unstructured P2P systems does not take full advantage of rich locality properties present in P2P system workloads, thus possibly resulting in inefficient searches or poor system scalability. In this paper, we propose a novel locality-aware P2P system architecture called Foreseer, which explicitly exploits <I>geographical</I> locality and <I>t ...

Keywords: Bloom filter, Foreseer, geographical locality, temporal locality

15 Digital libraries and cyberinfastructure track: creating information representations for the humanities (part 1): Finding a catalog: generating analytical catalog records from well-structured digital texts

David Mimno, Alison Jones, Gregory Crane

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(210.23 KB) Additional Information: full citation, abstract, references, index terms

One of the criticisms library users often make of catalogs is that they rarely include information below the bibliographic level. It is generally impossible to search a catalog for the titles and subjects of particular chapters or volumes. There has been no way to add this information to catalog records without exponentially increasing the workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed works are becoming increasingly available. This paper descri ...

Keywords: analytical cataloging, information extraction, library automation

16 Digital preservation: Building a research library for the history of the web

William Y. Arms, Selcuk Aya, Pavel Dmitriev, Blazej J. Kot, Ruth Mitchell, Lucia Walle

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**

Publisher: ACM Press

Full text available: pdf(332.90 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the building of a research library for studying the Web, especially research on how the structure and content of the Web change over time. The library is particularly aimed at supporting social scientists for whom the Web is both a fascinating social phenomenon and a mirror on society.The library is built on the collections of the Internet Archive, which has been preserving a crawl of the Web every two months since 1996. The technical challenges in organizing this data for r ...

Keywords: computational social science, digital libraries, history of the web, internet archive

17 Applications: Annodex: a simple architecture to enable hyperlinking, search & retrieval of time--continuous data on the Web

Silvia Pfeiffer, Conrad Parker, Claudia Schremmer

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Publisher: ACM Press

Full text available: pdf(396.88 KB) Additional Information: full citation, abstract, references, index terms

Today, Web browsers can interpret an enormous amount of different file types, including time-continuous data. By consuming an audio or video, however, the hyperlinking functionality of the Web is "left behind" since these files are typically unsearchable, thus not indexed by common text-based search engines. Our XML-based CMML annotation format and the Annodex file format presented in this paper are designed to solve this problem of "dark matter" on the Internet: Continuous media files are annot ...

Keywords: Annodex, CMML, continuous media Web, meta data, open standard

18 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare

programs for disseminating archaeology. The paper describes the Studio and Serv ...

19 GIOSS: text-source discovery over the Internet

Luis Gravano, Héctor García-Molina, Anthony Tomasic
June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2
Publisher: ACM Press

Full text available: pdf(230.37 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The dramatic growth of the Internet has created a new problem for users: location of the relevant sources of documents. This article presents a framework for (and experimentally analyzes a solution to) this problem, which we call the text-source discovery problem. Our approach consists of two phases. First, each text source exports its contents to a centralized service. Second, users present queries to the service, which returns an ordered list of promising text sources. T ...

Keywords: Internet search and retrieval, digital libraries, distributed information retrieval, text databases

20 Characterizing a national community web

Daniel Gomes, Mário J. Silva
August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3
Publisher: ACM Press

Full text available: pdf(364.77 KB) Additional Information: full citation, abstract, references, index terms

This article presents a characterization of the community Web of the people of Portugal. We defined criteria for delimiting this Web based on our past experience of crawling pages related to Portugal and collected over 3.2 million documents from 46,000 sites satisfying those criteria. Our characterization was derived from this crawl. We describe the rules that we established for defining the boundaries of this community Web and the methodology used to gather statistics. Statistics cover the numb ...

Keywords: Portuguese Web, Web characterization, Web communities, Web measurements

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1 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

2 Improving the granularity of access control for Windows 2000
Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Publisher: ACM Press
Full text available: pdf(447.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

3 Ubiquitous WWW: Implementing physical hyperlinks using ubiquitous identifier resolution
Tim Kindberg
May 2002 **Proceedings of the 11th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(400.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated with physical entities. The identifiers are resolved into virtual resources or actions related to

the physical entities - as though the user 'clicked on a physical hyperlink'. We have integrated identifier resolution with the Web so that it ca ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

4 A survey and analysis of Electronic Healthcare Record standards

Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(844.11 KB) Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

5 The envoy framework: an open architecture for agents

Murugappan Palaniappan, Nicole Yankelovich, George Fitzmaurice, Anne Loomis, Bernard Haan, James Coombs, Norman Meyrowitz
July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(2.47 MB) Additional Information: full citation, abstract, references, citings, index terms

The Envoy Framework addresses a need for computer-based assistants or agents that operate in conjunction with users' existing applications, helping them perform tedious, repetitive, or time-consuming tasks more easily and efficiently. Envoys carry out missions for users by invoking envoy-aware applications called operatives and inform users of mission results via envoy-aware applications called informers. The distributed, open architecture developed for Envoys is derived from an analysis of ...

Keywords: application programmer interface, user agent

6 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

7

Improving the granularity of access control in Windows NT
Michael M. Swift, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Anne Hopkins, Shannon Chan, Mario Goertzel, Gregory Jensenworth
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**
Publisher: ACM Press

Full text available: pdf(259.87 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the access control mechanisms in Windows 2000 that enable fine-grained protection and centralized management. These mechanisms were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000. We first extended entries in access control lists to allow rights to apply to just a portion of an object. The second extension allows centralized management of object hierarchies by specifying more precisely how access control lis ...

Keywords: Windows 2000, access control lists

8 Markup systems and the future of scholarly text processing
James H. Coombs, Allen H. Renear, Steven J. DeRose
November 1987 **Communications of the ACM**, Volume 30 Issue 11
Publisher: ACM Press

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Markup practices can affect the move toward systems that support scholars in the process of thinking and writing. Whereas procedural and presentational markup systems retard that movement, descriptive markup systems accelerate the pace by simplifying mechanical tasks and allowing the authors to focus their attention on the content.

9 Converting a textbook to hypertext
Roy Rada
July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3
Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Traditional documents may be transformed into hypertext by first reflecting the document's logical markup in the hypertext (producing first-order hypertext) and then by adding links not evident in the document markup (producing second-order hypertext). In our transformation of a textbook to hypertext, the textbook is placed in an intermediate form based on a semantic net and is then placed into the four hypertext systems: Emacs-Info, Guide, HyperTies, and Super-Book. The first-order Guide a ...

Keywords: document markup, electronic publishing, human-computer interaction, hypermedia models

10 Distributed file systems: concepts and examples
Eliezer Levy, Abraham Silberschatz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(5.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed

computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

11 An electronic publishing spectrum: a framework for text modules

Nancy S. Kneece
October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle**
Publisher: ACM Press
Full text available: pdf(866.21 KB) Additional Information: full citation, references, index terms

12 A tutorial introduction to the electronic design interchange format (tutorial session)

John P. Eurich
July 1986 **Proceedings of the 23rd ACM/IEEE conference on Design automation**
Publisher: IEEE Press
Full text available: pdf(594.46 KB) Additional Information: full citation, abstract, references, index terms

The Electronic Design Interchange Format (EDIF) is a neutral data format, through which electronic design information can be exchanged between CAD/CAE systems, semiconductor foundries, fabrication and assembly facilities, etc. The EDIF standard has been under development since November 1983. This paper discusses the history of its development, the organization which supports it, the goals and guidelines followed by the professionals who are developing the standard, and numerous details of t ...

13 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(6.63 MB) Additional Information: full citation, references, citings

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

14 OAI application: Using the open archives initiative protocols with EAD

Christopher J. Prom, Thomas G. Habing
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(220.68 KB) Additional Information: full citation, abstract, references, index terms

The Open Archives Initiative Protocols present a promising opportunity to make metadata about archives, manuscript collections, and cultural heritage resources easier to locate and search. However, several technical barriers must be overcome before useful OAI records can be produced from the disparate metadata formats used to describe these resources. This paper examines Encoded Archival Description (EAD) as a test case of the

issues to be addressed in transforming cultural heritage metadata to ...

Keywords: encoded archival description, interoperability, open archives initiative

15 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(443.01 KB) Additional Information: full citation, abstract, references, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

16 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(611.20 KB) Additional Information: full citation, references, citings, index terms

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

17 Mobility: Location-aware visualization of VRML models in GPS-based mobile guides

Stefano Burigat, Luca Chittaro
March 2005 **Proceedings of the tenth international conference on 3D Web technology**
Publisher: ACM Press
Full text available: pdf(827.36 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present LAMP3D, a system for the location-aware presentation of VRML content on mobile devices. We explore the application of LAMP3D in tourist mobile guides: the system is used to provide tourists with a 3D visualization of the environment they are exploring, synchronized with the physical world through the use of GPS data; tourists can easily obtain information on the objects they see in the real world by directly selecting them in the VRML world. We discuss the design and de ...

Keywords: 3D virtual environments, VRML, evaluation, interaction style, mobile devices, mobile guides

18 Office-by-example: an integrated office system and database manager

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof
October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4
Publisher: ACM Press

Full text available: pdf(2.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

19 Digital preservation: Preservation functionality in a digital archive

Erik Oltmans, Raymond van Diessen, Hilde van Wijngaarden
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(359.08 KB) Additional Information: full citation, abstract, references, index terms

Early 2003 the digital archiving system of the National Library of the Netherlands (KB) was taken into production. This system is called the e-Depot and its technical heart is the IBM system called Digital Information Archiving System (DIAS). The e-Depot is built according to the recommendations in the OAIS reference model and is dedicated to the long-term storage of and access to large quantities of digital publications. To control safe storage and provide for future rendering of the dig ...

Keywords: digital preservation, electronic deposit, permanent access, technical metadata

20 The "HyTime ": hypermedia/time-based document structuring language

Steven R. Newcomb, Neill A. Kipp, Victoria T. Newcomb
November 1991 **Communications of the ACM**, Volume 34 Issue 11
Publisher: ACM Press
Full text available: pdf(12.96 MB) Additional Information: full citation, references, citings, index terms

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